

In the Claims:

Please amend the claims as follows.

Claims 1-19 (Previously canceled).

Claim 20 (Currently amended). A method for inducing the re-expression of a previously silenced endogenous gene encoding human sodium/iodide symporter in a human thyroid carcinoma cell comprising administering to the cell a compound selected from the group consisting of ~~5-azaeytidine~~ 5-azacytidine, sodium butyrate, dimethylsulfoxide, adenosyl-1,8-diamino-3-thio-octane, and phenylacetate.

Claim 21. (Previously added). The method of claim 20 wherein the thyroid carcinoma cell is a thyroid typical papillary carcinoma cell or a follicular carcinoma.

Claim 22. (Previously added). The method of claim 20 wherein re-expression is effected by demethylating the previously silenced endogenous gene or by inhibiting methylation in the cell.

Claim 23. (Currently added). A method for restoring iodide transport to a human thyroid carcinoma cell comprising administering ~~5-azaeytidine~~ 5-azacytidine to the cell in an amount effective to transcriptionally activate the expression of a gene encoding the human sodium/iodide symporter.

Claim 24 (Previously added). A method of restoring iodide transport to a human thyroid carcinoma cell comprising administering difluoromethylornithine or S-adenosyl-1,8-diamino-3-thio-octane to the cell in an amount effective to transcriptionally activate the expression of a gene encoding the human sodium/iodide symporter.